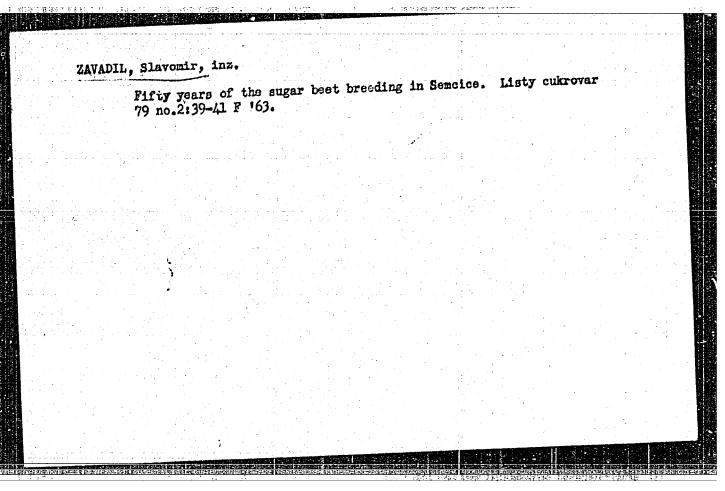
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KAS, Vaclav, dopisulici chlen; KOSIL. Vladimir, dopisujici chlen; KALANDRA, Augustin, akademik; PARIZEK, Miroslav, dr.; TOMSIK, Boleslav, prof.; PATCCKA, Jan, dr., kandidat biologichych ved; CHURY, Jiri, doc. dr.; PAV, Jaromir, dr.; JANDA, Jiri, dr.; KANAK, Karel, inz.; ZAVADIL, Zdenek, inz.

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3. Predseda VI. odboru Ceskoslovenske akademie zemedelskych ved (for Kalandra). 4. Vyskumny ustav lesneho hospodarstva, Banska Stiavnica (for Patocka). 5. Vyzkumny ustav lesniho hospodarstvi a myslivosti Ceskoslovenske akademie zemedelskych ved, Zbraslav (for Pav, Janda, Kanak, Zavadil).

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Praha, Czechoslovakia

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(TUBERCULOSIS, PULMONARY, pathol.

bacteriol. of postmortem material, hyg. measures for protection of autopsy room personnel (Cz))

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hyg. measures for protection of autopsy room personnel from postmortem tuberc. material (Cz))

CZECHOSLOVAKIA/Microbiology - Microbes Pathogenic for Man and Animals. Bacteria. Mycobacteria. Abs Jour : Ref Zhur Diol., No 22, 1958, 99519 : Langerova, M., Meislova, M., Zavadilova, Z., Soukupova, Author DESCRIPTION OF THE PROPERTY OF THE PARTY OF Inst Title : Immunizing Action of BCG and of the M-Vaccine Upon the Course of Experimental Tuberculosis in White Mice. : Rozhl. tuberk. a nemocech plicnich, 1957, 17, No 4, 318-Orig Pub Abstract DCG vaccine or M-vaccine was injected into the caudal vein in mice; the mice were infected within 4 weeks with a culture of the strain D217 adapted for nice. All the experimental animals were killed within 4 weeks and the average weight of their organs was determined. The average weight of the lungs of the infected mice was 1 G; that of the immunized and then infected ones Card 1/2

CZECHSOLOVAKIA/Microbiology - Microbes Pathogenic for Man and Animals. Bacteria. Mycobacteria.

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: Ref Zhur Biol., No 22, 1958, 99519

was 0.5 g. The results of the experiment demonstrated the protective action of the vaccination upon the condition of the lungs of mice subjected to infection, since the weight of that organ in the vaccinated and then infected mice proved to be significantly smaller than in mice infected but not submitted to vaccination. The determination of the weight of the spleen in the experimental animals confirmed this deduction. It is the opinion of the authors that the protective action of both vaccines is identical. — L.M. Model'

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1. Of the State Institute of Hygiene, Prague, Czechoslovakia, Third Division of Microbiology and Epidemiology, Department of Tuberculosis Research and Diagnosis.

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Zavadinskaya, K. Ye. Dobavochnyye agglyutininy v sukhoy Krovi.
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ZAVADIVKER, B. N.

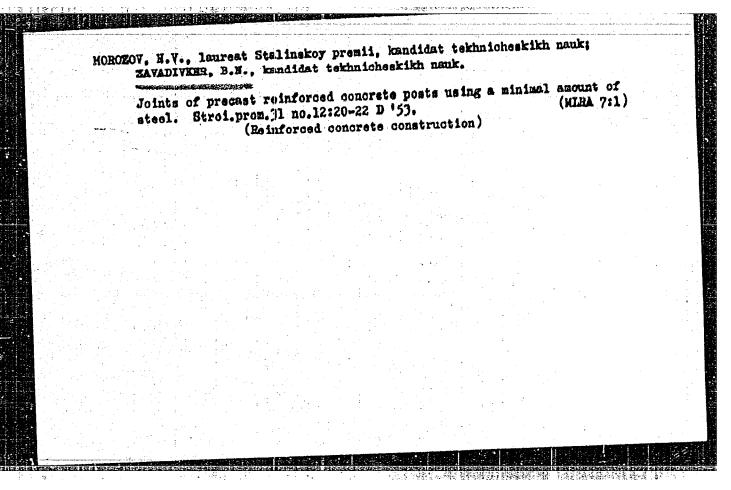
Dissertation: "Three-Dimensional Reinforced-Concrete Frames Possessing Cyclic Symmetry and Their Application in the Frame Foundations of Cooling Towers."

17 Oct. 49

Moscow Order of Labor Red Banner Engineering Construction Inst.

imeni V. V. Kuybyshev

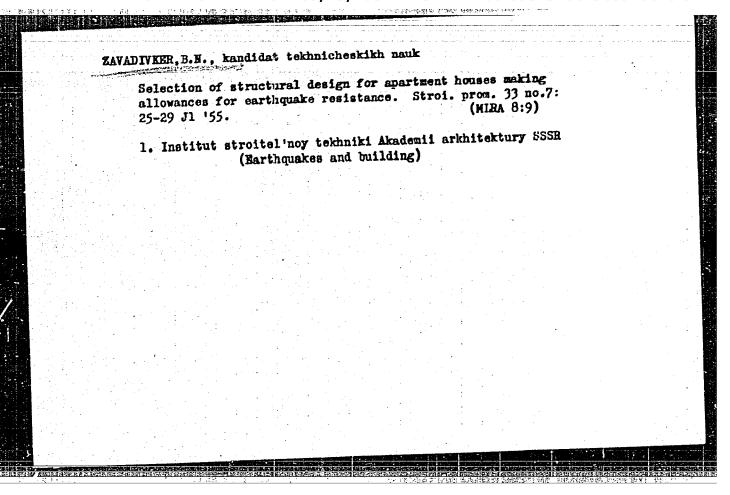
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ZAVADIVINA, B. II.

"On the Calculation of Spatial Single Layer Frames Having Cyclical Symmetry," Issled. po Teorii Socruzheniy, 16 6, 195;, pp 167-196

Discusses the calculation of the strength of a frame which consists of a series of identical columns equally spaced around a circle, fastened below and connected above by a broken cross bar. Consideration is given to the action of an elementary vertical, radial and tangential load in one of the nodes. Two methods are used: (1) expansion of the load into a finite trigonometric series, and (2) application of finite difference equations. (RZhMekh, No 5, 1955) SC: Sum.No. 713, 9 Nov 55



RAPPOPORT, T. B. Kand. Arkhitektury i GORNOV, V. N. Chl - Korr. Akademii Arkhitektury SSSR, ZAVADIVKER, B. N. Kand. Tekhn. Nauk, KALMANOK, A. S. Kand. Tekhn. Nauk Nauchno-issledovatel skiy institut stroitel noy tekhniki Akademii Arkhitektury SSSR Ratsional nyye Konstruktsii Zhilykh Zdaniy V seysmicheskikh Rayonakh Page 68

SO: Collections of Annotations of Scientific Rasearch Work on Construction. completed in 1950. Moscow, 1951

ZAVADIVKER, B. 11.

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97-10-2/14

AUTHORS:

Burgman, V.V., Dr. of Mech. Sciences, Zavadivker, B. H., Candidate of Mech. Sciences. Reyshtadt, L. I., Engr.

TITLE:

A New Sectional Monolithic Reinforced Concrete Con-Struction of Multistoried Industrial Buildings.

(Novyye sborno-1 molitnyje zhelezobetennyye konstruk-

tsil mnogoetazhayish promyshlennyish zdaniy).

PERIODICAL:

Beton i Zhelosobeton, 1957, Nr.10. pp. 381-359 (USSR).

ABSTRACT:

As a result of investigations carried out during the last three years the majority of building organizations have accepted as optimal the 6m x 6m column arrangement for industrial buildings as indicated in Fig.1. The width of the buildings were standardized as 16, 24, 30 and 36 m. The author of this article, in collaboration with V. V. Zhilinyi, Can. of Arch., solved the problem of the construction of a sectional reinforced concrete skelston and floors for standardized multistorey industrial buildings. Fig.2 gives a typical section of this new design. The floor height was standardized as 4.5 s. The load bearing construction was designed for 1,000 kg/m² of superimposed load. Fig.3 illustrates section and details of reinforced concrete floor construction. Fig.4 shows junction of floor

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A New Sectional-Monclithic Reinforced Concrete Construction of Multistoried Industrial Buildings.

and supporting head of the column. The floor slabs are 4,600 x 1,500 mm in size, 190 mm high, and 1.75 tons in weight with four oval holes (see Fig. 5). Their reinforcement is of pretensioned high tensile steel and mesh. Slace spanning columns are 4,800 x 1,600 mm in size and 240 mm high, weighing 2.6 tons (see Fig.1). The head slab of the column is shown in Fig.7 and the section of the column in Fig. 8. The columns are jointed together by welding of the reinforcement. The load bearing units are made from concrete Mark 300, basement columns of concrete Mark 400. Experience of the construction of a printing works in Kiev, designed by Giprokinopoligraf, indicates that this system is of considerable advantage. Fig. 9 gives alternative methods of constructing a standard floor. The Leningrad factory, Barikada, and some Moscow factories concentrate on the manufacture of hollow infilling slabs for housing purmanufacture of hollow infilling slabs for housing purmanufacture poses. Table 1 gives requirements of concrete and steel for the manufacture of precast structural elements of a skeleton of a multi-storey industrial building. Table 2 gives technical and economic data on a five-

A New Sectional-Monolithic Reinforced Concrete Construction of Multisforied Industrial Buildings.

storey industrial building, and Table 3 gives quantities of concrete and steel required for a skeleton and roof of a six-storey high industrial building and roof of a six-storey high industrial building in comparison with other constructional methods. New types of multi-storey sections of industrial buildings are being designed by the No.6 Planning Institute of the Ministry of Vireless Industry No.6 Inst.ministerstva radiotekhnicheskoy promyshlennosti) in collaboration with the Institute for Industrial Buildings and Constructions (Institut promyshlennykh zdaniy i sooryzheniy) of the Academy for Building and Architecture of the USSR (Akademii strontel stva i arkhitektury SSSR) on the request of the Gosstroy of USSR. There are 3 Tables and 10 Figures.

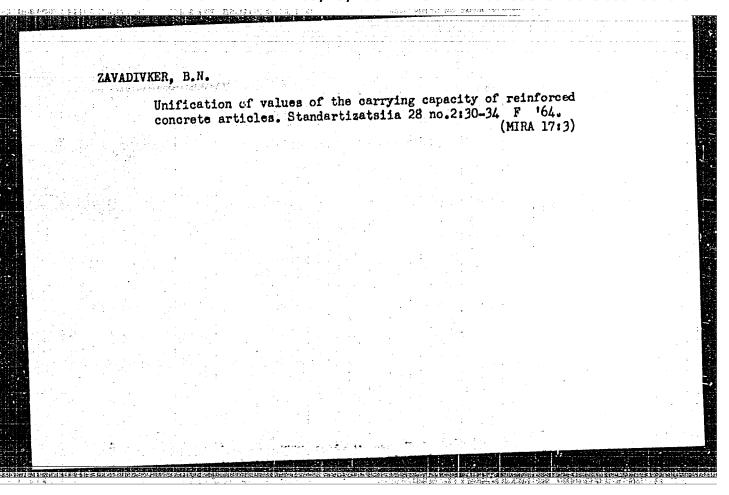
AVAILABLE: Library of Congress.

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Selecting structural schemes for reinforced concrete frames of multistoried industrial buildings. Biul. stroi. tekh. 15 no.8: 9-13 Ag '58.

1.Mauchno-issledevatel'skiy institut promyshlennykh zdaniy i seeruzheniy Akademii stroitel'stva i arkhitektury SSSR. (Industrial buildings) (Precast concrete construction) (Steel, Structural)



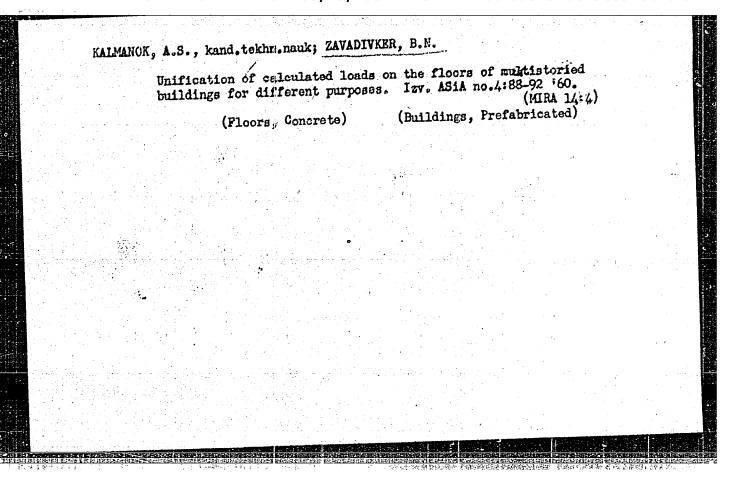
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ZAVADIVKER, B.N., kand. tekhn. nauk, red.

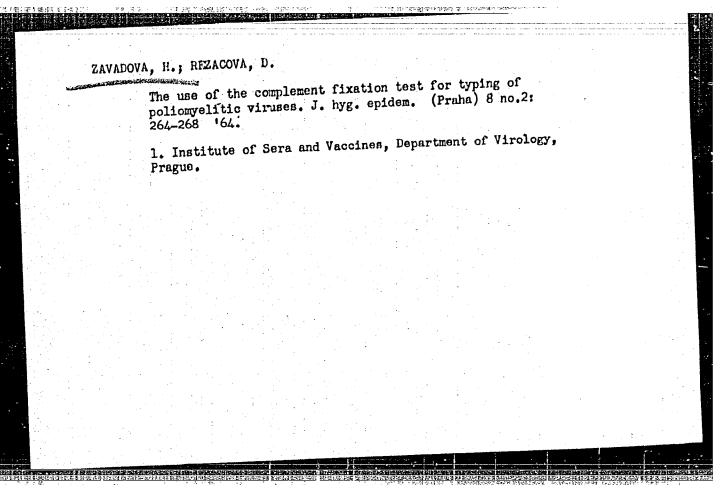
[Construction specifications and regulations] Stroitel'nye normy i pravila. Pt.I. Sec.V. ch.5.[Reinforced concrete products; general instructions] Zhelezobetonnye izdellia; obshehte ukazaniia (SNiF I. V.5-62). 1963. 25 p. (MIRA 17:4)

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VONEA, V.; JANDA, Z.; SHEDE, J.; ADAM, E.; ZAVALOVA, H.; ADAMOVA, V.; STAREK, M.

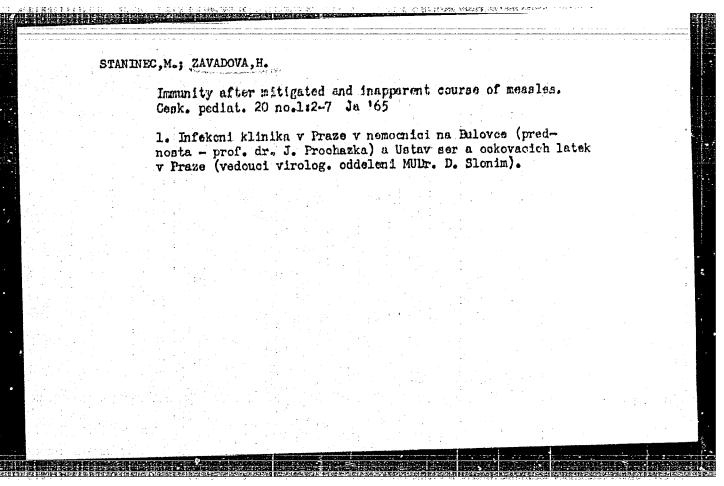
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VONKA, V.; JANDA, Z.; SIMON, J.; ADAM, E.; ZAVADOVA, H.

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1. Institute of Sera and Vaccines, Virus Research Department and Clinical and Epidemiological Department, Prague, Czechoslovakia.



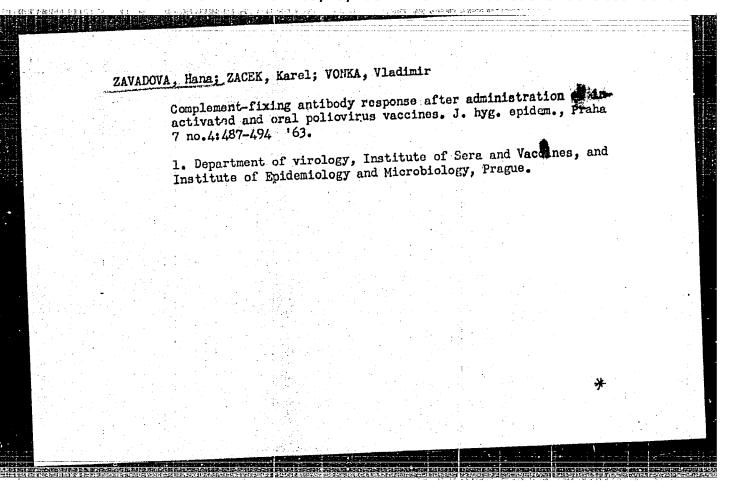
ZACEK, Karek; VONKA, Vladimir; ZAVADOVA, Hana; ZACKOVA, Zdena

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Epidem., Praha 2 no.4:448-456 1958.

1. Institute of Sera and Vaccines, Prague. K. Zacek, Ustav ser a ockovacich latek, Praha 12, Srobarova 48, Czechoslovakia.

(POLIOMELITIS, differential diagnosis, laboratory technics in vacc. control in Czech.)



ADAM, E.; STANINEC, M.; KUBATOVA, E.; HALIK, J.; MORAVA, V.; MARES, I.; ZAVADOVA, H.; DREVO, M.

Vaccination against measles with live vaccine in a pediatric department. Cas. lek. cesk. 104 no.2:38-46 15 Ja 65

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DREVO, M.; ZAVADOVA, H.; MARES, I.; ADAM. E.

Use of the neutralization test and the complement fixation re-

Use of the neutralization test and the complement like the latter for demonstration of antibodies against measles. Cas. lek. cesk. 104 no.2:47-49 15 Ja '65

1. Ustav ser a ockovacich latek, Praha, (reditel MUDr. J.Malek).

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Antibody formation in measles. Cas. lek. cesk. 10A no.2:49-51
15 Ja '65

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Infekcni klinika v Prazs 8 Bilovka (prednosta - prof. dr.
J. Prochazka, DrSc.)

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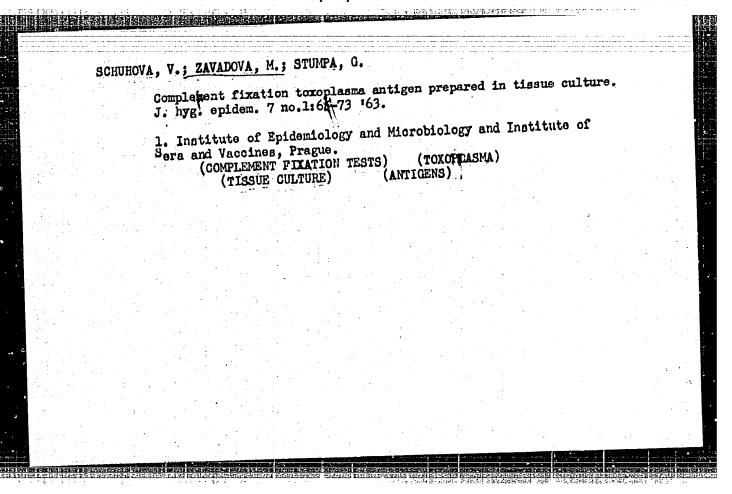
GDOVINOVA, A.; POLONY, R.; VRTIAK, J.; ZAVADOVA, J.; Department of Infectious Diseases, Veterinary Faculty, College of Agriculture (VSP, Veterinarska Fakulta, Katedra Infekenych Chorob), Kosico.

"Uso of the Color Test in Laboratory Diagnosis of the Classical Fowl Plague."

Prague, Veterinarni Medicina, Vol 12, No 1, Jan 67, pp 19 - 25

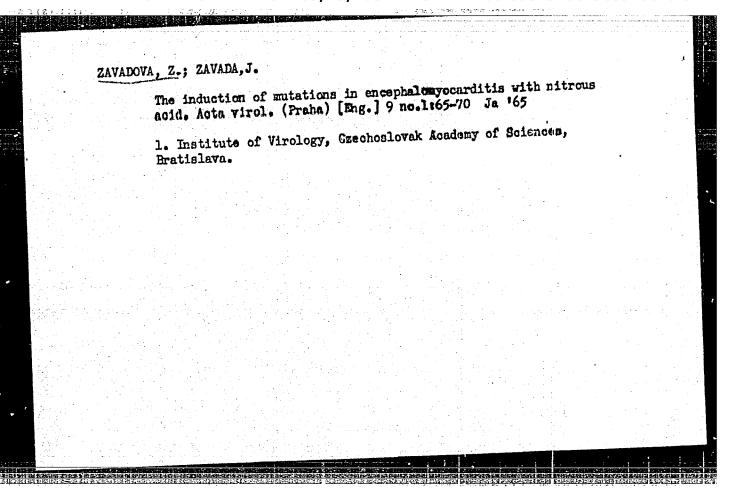
Abstract /Authors' English summary modified 7: The optimum cell concentration with the highest activity during a 4-7 day observation period was 1-2 x 100 of chicken embryonal cells. Best results were obtained in Earl's medium. Most distinctive color changes were obtained with a 10% concentration of the serum. A comparison of the results of the color test with titration in the stationary KEB test tube cultures showed practically the same values by both methods. The differences were within a single order of magnitude. 2 Tables, 8 Western, 5 Czech references. (Manuscript received 2 Jul 66).

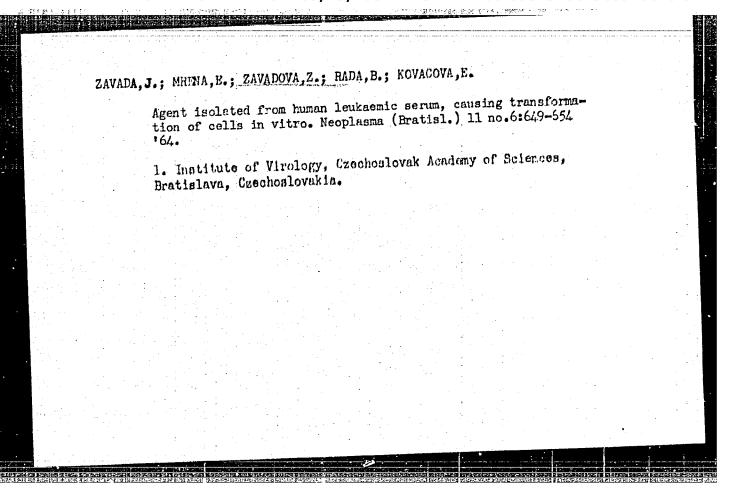
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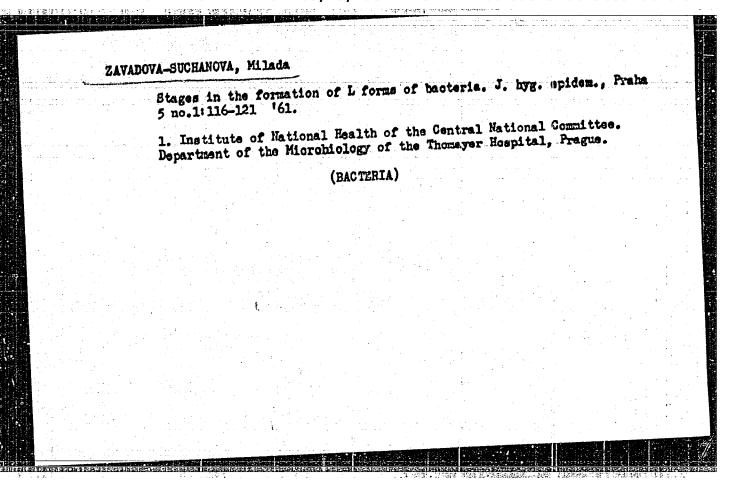


RAISNDA, R.; ZAVADOVA, M.

Patients with active tuberculosis in mentubercular vards of health institutions, Cas. lek. cost. 104 no.92245-250 5 Mr 15. health institutions, Cas. lek. cost. 104 no.92245-250 15 Mr 15. health institutions, Cas. lek. cost. 104 no.92245-250 15 Mr 15. health institutions, Cas. I frame L (vedeuci Jehar a obvoini fitizeolog MDDr. R.Kalenda) a Mibrobi-logische oddelbed fitizeolog MDDr. R.Kalenda) a MDDr. R.Kalenda a M

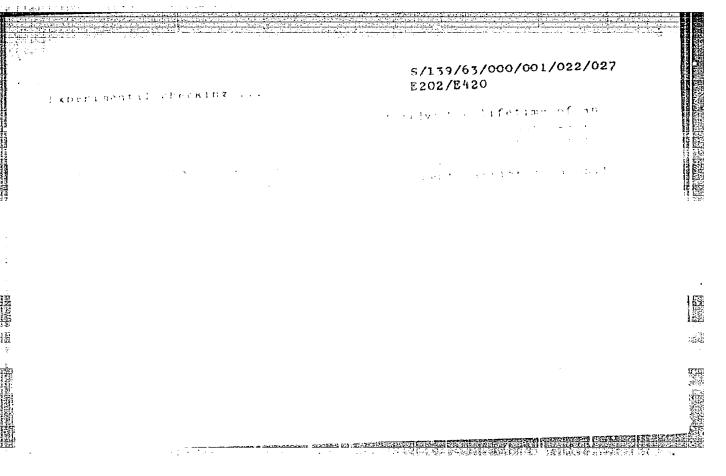






SHVINDIERMAN, G.S.; ZAVADOVSKAYA, E.N.					
	Determination of lower aluminum alkyls by the hydrolysis method. Zav. lab. 31 no.1:32-34 '65. (MIRA 18:3)				
	1. Institut neftekhimicheskogo sinteza AN SSSR.				

 $\frac{\sigma_{s}}{\sigma_{s}} = \frac{\sin\frac{1}{x}}{1 + x t h} \frac{2f}{x}.$ Where 1 and 4 are the luminescence pulse amplitudes at a



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BUSHUYEVA, T. M.; DENYKO, E. V.; ZAVADEKAYA, I. G.; RAKRINOV, G.; SEMIKHATOVA, O. A.; CHESNOKOV, V. A.

"The effect of heating of the leaf on the physiological activity of its cells and subcellular structures."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR &Leningrad State Univ.

ZAVADSKAYA, I.G.

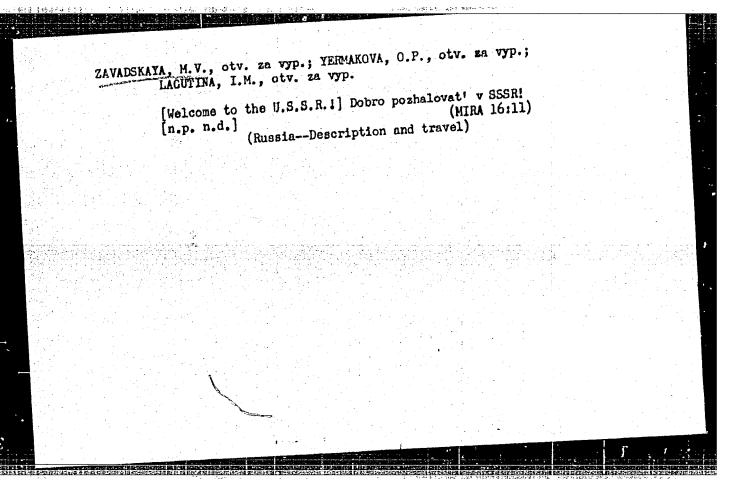
Rate of the increase of the heat resistance of plant cells after a short preliminary exposure to high temperature.

Bot. zhur. 48 no.5:755-758 My 163. (MIRA 17:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Ieningrad.

13.13.00 : USSR Plant Physiclogy. General Problems. CATEGORY ABS. JOUR. : NZhBiol., No. 5, 1959, No. : Skazkin, F.D.; Zavadskaya, I.G. AUTHOR Academy of Sciences USSR DIST. Effect of Insufficient Soil Moisture and TITLE Hitrogen Supply on Microsporogeneses in Barley. : Dokl. AN USSR, 1957, No.1, 150-152 ORIG. PUB. Under the conditions of the vegetative experi-ARSTRACT ment nitrogen (2 norms of nitrogen calculated in Helriagel(s mixture as a 1% solution of Ce (1103)2) was applied to the woll into the containers 3-4 days before the light stage began in the barley. At the end of the light stage "drought" conditions were created in the experimental containers (moisture content 13% of saturation). The viability of the pollon was determined by Shardakov's method, the plasma's viscosity per Henkel. Soil drought caused CARD:

COUNTRY CATEGORY ABS. JOUR.	RZhElol., No. 5, 1959, No. 19932
AUTHOR LINGT, LITTLE	
ORIG. PUB.	
ABSTRACT	abrupt changes in the physiological pro- cesses which disturbed the normal procedure of
	microsporogenesis and results of the causes in tion of lifeless polien. One of the causes in the visco-
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	zed the physiological productive increased "drought" (the plasma's viscosity increased less, tissue moisture rose abruptly, pressure increased) and reduced the percentage of sterile
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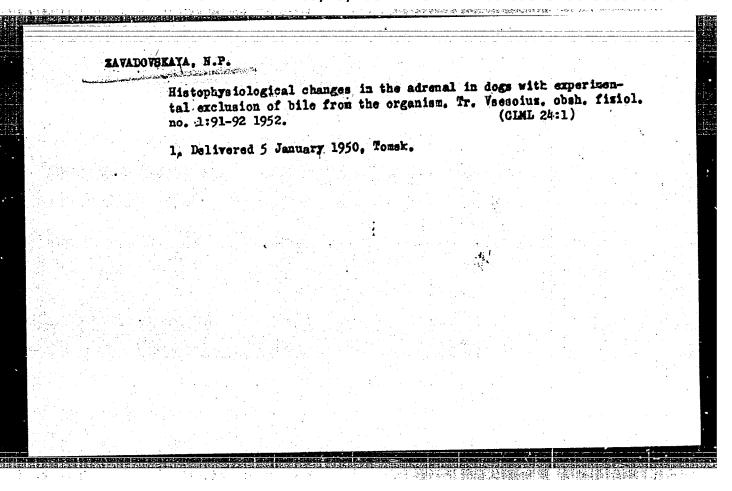


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وسينائي والمعايد	ZAVADOV	VA-SUCHANOVA, M.; YYBORNA, M.
		Contribution to the diagnosis of Corynebacterium diphtheriae in spabs. Ceak. epidem. 11 no.5:281-286 S '62.
		1. Mikrobiologiske oddeleni a oddeleni pro spalu a zaskrt Thomayerovy nemocnice v Praze. (CORYNEBACTERIUM DIPHTHERIAE) (DIPHTHERIA)
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Question of the duration of coccidial invasion in goats. Trudy Inst. zool. AN Kazakh. SSR 16:208-210 '62. (MIRA 15:10) (Coccidiosis) (Parasites-Goats)	PAYCHUK, N. G.; TSYGANKOV, A. A.; ZAVADSKAYA, L. G.									
(Coccidiosis) (Parasites—Goats)		Question of Inst. zool.	the duration AN Kazakh.	on of coccio SSR 161208-	ial invas 210 '62.			udy		
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	Case of areactive presence of glas oft. 72 no.5:52-53 S-0 159.	ss in the crystalline lens. Vest. (MIRA 13:3))
	1. Kafedra glaznykh bolezney (zave Belorusskogo instituta usovershens (CRYSTALLINE LENS, for	eduyushchiy - prof. M.M. Zolotareva) stvovaniya vrachey. r. bodies)	



- 1. ZAVAIXOVSKAYA, N. P.
- 2. USSR (600)
- 4. Bile
- 7. Histophysiological changes in the adrenals in dogs with experimental exclusion of bile from the organizm. Trudy Vses. Obshch. Fiz. biokhim. i farm. no. 1, 1952.

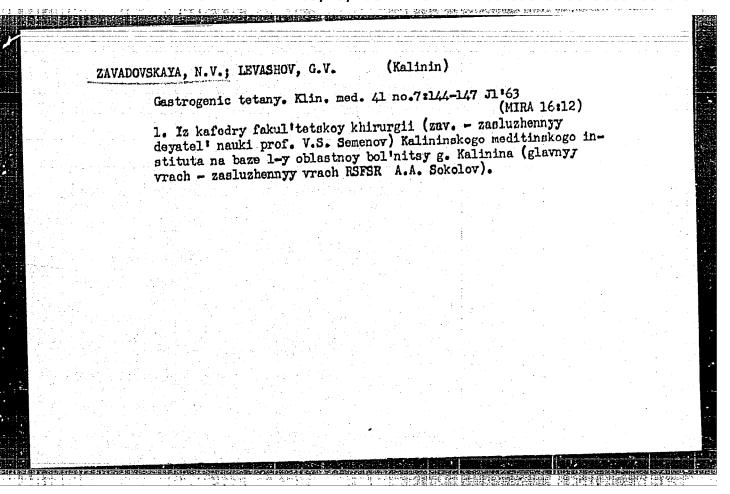
9. Monthly List of Russian Accessions, Library of Congress, Marcy 1953. Unclassified.

1.	ZAVADOVSKAYA, N. P.
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l. •	Suprarenal Bodies
7.	Histophysiological changes in the adrenals in dogs with experimental exclusion of bile from the organism. Trudy Vses. obshch. fiz. biokhim. i farm. no. 1, 1952.
	March 1953, Uncl.
9.	Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

Excretion of neutral red by the digestive tract of rabbits in obstruction of the small intestine. Pat. fiziol. i eksp. terap. 5 no;2:49-52 Mr-Ap '61. (MIRA 14:5)

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1. Iz kafedry obshchey khirurgii (zav. - prof. A.P. Yurikhin) Vinnitskogo meditsinskogo instituta i iz kafedry fakul tetskoy khirurgii (zav. - prof. A.G. Karavanov) Kalininskogo meditsinskogo instituta. (INTESTINES--OBSTRUCTION)



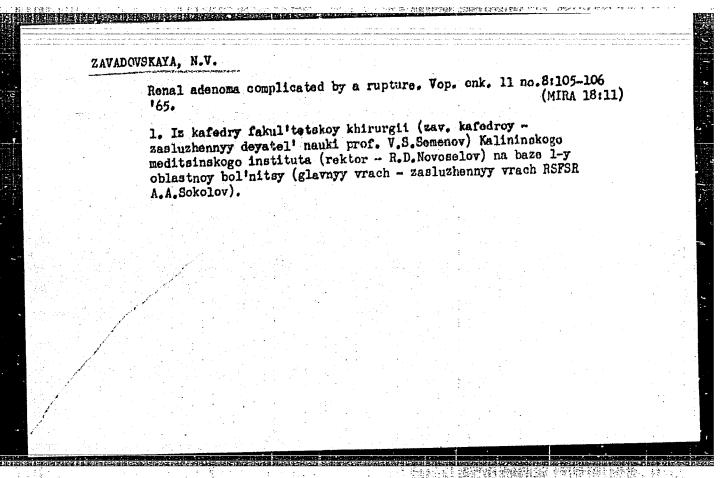
ZAVADOVSKAYA, N.V.; ZAGORODNYAYA, V.G.

Case of intestimal tuberculosis with stemosed sigmoid. Probl. (MIRA 18:11)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. V.S. Semenov)

Kalininskogo meditsinskogo instituta.

ZAVADOVSKAYA, N.V., dotsent Late results of surgical treatment of intestinal obstruction. Veat. khir. no.10:112-114, '64. 1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - zasluzhennyy deyatel' nauki prof. V.S. Semenov) Kalininskogo meditsinskogo instituta (rektor - dotsent A.N. Kushnev) na baze l-y Kalininskoy oblastnoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR A.A. Sokolov).



ZAV USSR / Micr	PADOVSKAYA, T.A. Pobiology. Microbes Pathogenic to Humans and F-3 Animals.
Abs Jour	Rf Zhur - Biol., No 2, 1958, No 5251
Author	: Zavadovskaya, T.A.
Inst	Not given
Title	Serologic Characteristics of Proteus Microorganisms of Various Origins
Orig Pub	various 3.2 yakh alimentarn, proiskhozhdeniya, L., Medgiz, 1955, 31-37
Abstract	A study was conducted of enzymatic and serological properties of 131 proteus cultures isolated in food infections, ties of 131 proteus cultures isolated in feeds of healfrom wounds, food products, water and from feees of healfrom wounds, food products, water and from feees of healfrom wounds. All the cultures studied are related to 3 thy people. All the cultures studied are related to 3 varieties in their ability to ferment carbohydrates and
Card	1/2

no.40:95-100 64	wednesogement of poor	ding curves. Prikl. (NIR# 1	ğ:1)

ZAVADOVSKAYA, V.N.; MAL'SHIN, V.M.

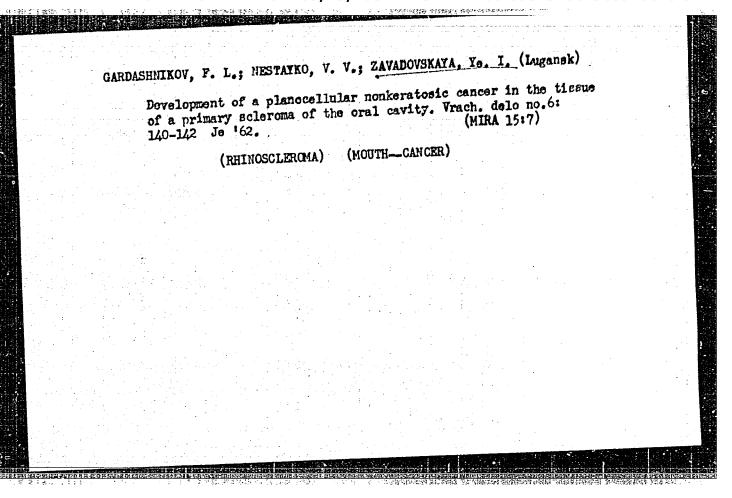
Determination of dissolved gases in liquid titanium tetrachloride. Zav. lab. 31 no. 12:1447-1448 *65 (MINA 19:1)

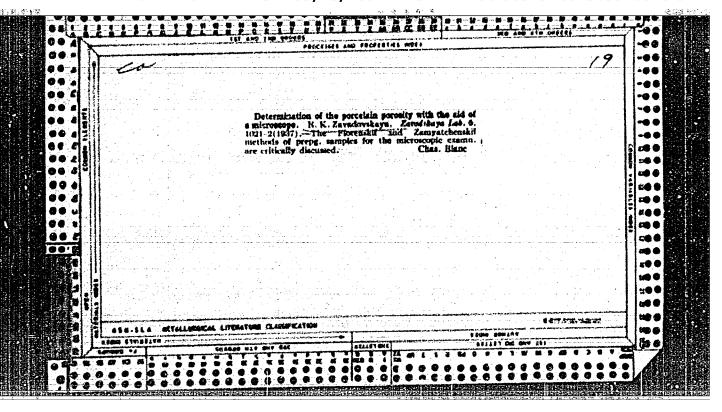
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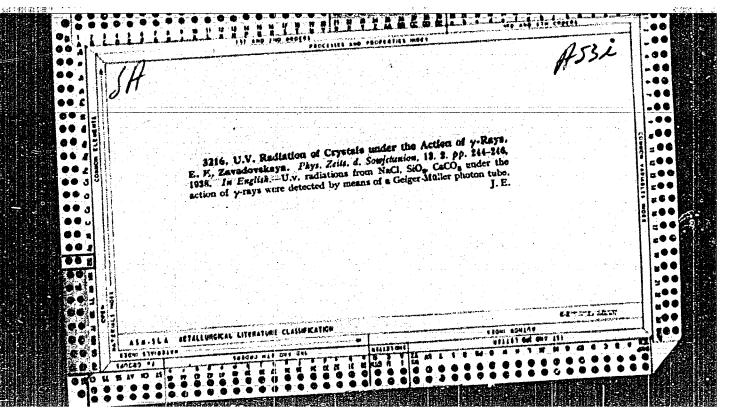
NESTAYKO, V.V., dotsent; ZAVADOVSKAYA, Ye.I.

Work of the Lugansk Society of Pathoanatomists during 1960-1963.
Arkh. pat. 27 no.3190-92 '65. (MIRA 18:5)

1. Predsedatel' Luganskogo obshchestva patologoanatomov (for Nestayko). 2. Sekretar' Luganskogo obshchestva patologoanatomov (for Zavadovskaya).

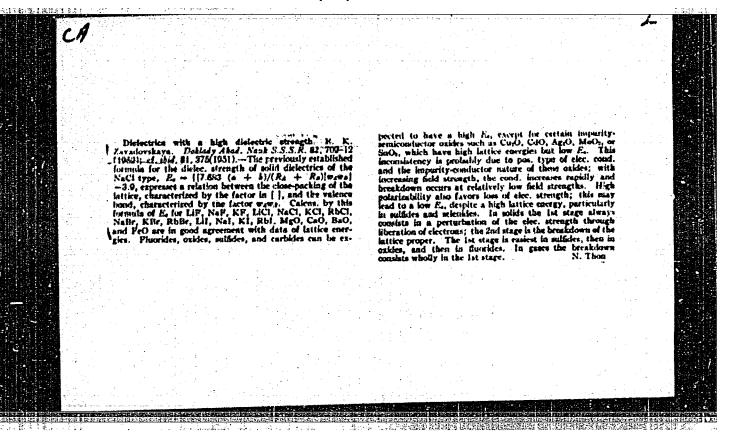






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ZAVADOVSKAVA, E. K.	The relation between breakings at the state of the state
Chemical Abst. Vol. 48 No. 9 May 10, 1954 General and Physical Chemistry	The relation between break-lown strength and charge mobility in a dislocation. Programmer and charge set the potential difference F. at which electrons have the battlee. For cubic lattices F. at which electrons have the when U is the height of the potential affective of interaction with in the dielectric. This formula gives values that are 2-3 charge the capic, values. Cyrus Feldman.
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USSR/Electricity - Dislectrics.

May 53

"Influence of Porosity on the Electrical Strength of Solid Dielectrics," Docent Ye. K. Zavadovskaya, Cand Phys-Math Sci, Tomsk Polytech Inst im Kirov

Electrichestvo, No 5, pp 28-29

Cites results of pulse-load testing of some solid dielectrics (porcelain, ebonite). Results show that a reduction of internal porosity is accompanied by an increase in electrical strength. Submitted 2 Aug 52.

2-5700

ZAVATOVSKAYA. YE. K

The Cossittee on Stelin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name

Title of Work

Rominated by

Vorob'yev, A. A. Zavadovskaya, Ye. K.

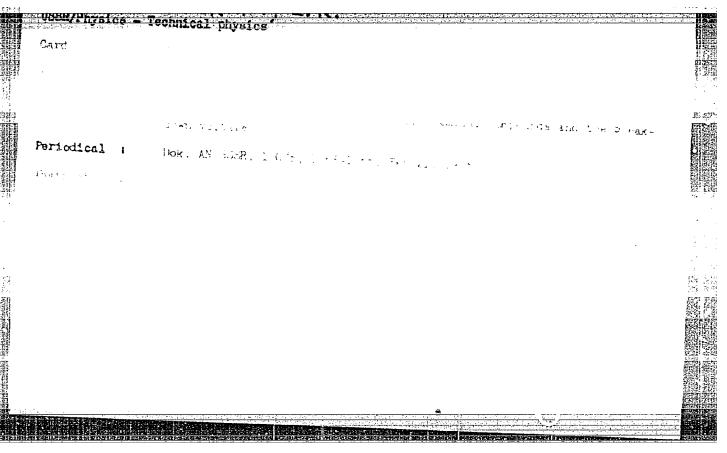
"Dielectric Stability of Solid Dielectrics" Siberian Physicotechnical Institute

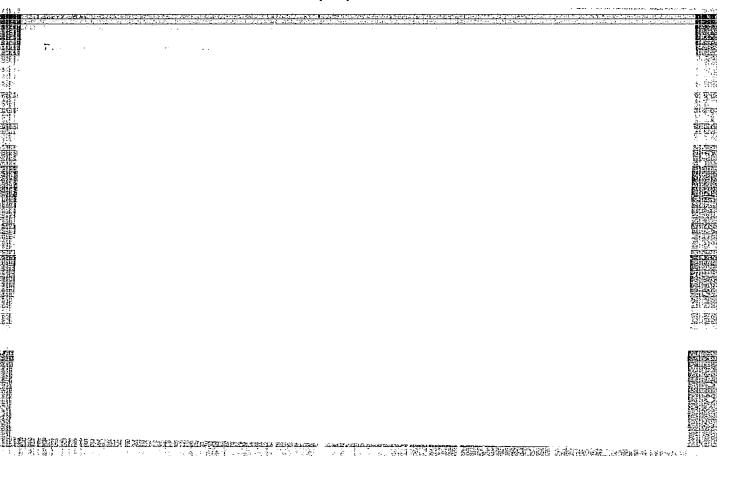
80: W-30604, 7 July 1954

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	Title	ŧ	Some remarks on a possible relationship between the F-band of absorption of alkali-halide crustals and the lattice energy of the latter	
	Fericaical	t	Dok. AN SSSR -0/4, 173-574, Cet. 1, 1954	
All the state of t	Abetract	•	The apticle atvances the inssibility of a theory on the relationship	
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"Dielectric Strength of Ionic Dielectrics, and the Space-Lattice Energy." Min. Higher Education USSR, Tomsk State U imani V. V. Kuybyshev, Tomsk, 1955. (Dissertation for the Degree of Doctor of Physical & Mathematical Sciences)											
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VOROB'YEV, Aleksandr Akimovich; ZAVADOVSKAYA, Yekaterina Konstantinovna; ALEKSEYEV, D.M., redaktor; KUZHETSOVA, Ye.B., redaktor; MUFASHOVA, N.Ya., tekhnicheskiy redaktor

[Nlectric strength of solid dielectrics] Elektricheskaia prochnost' tverdykh dielektrikov. Moskva. Gos. izd-vo tekhniko-teoret. lit-ry. 1956. 312 p.

(Dielectrics)

ZAVADOVSKAYA, N. V., dotsent

Differential diagnosis of invagination and dysentery in infants; advice of a surgeon to young pediatricians. Pediatriia no.4: 43-46 162. (MIRA 15:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. A. G. Karavanov) Kaliniskogo meditsinskogo instituta (dir. - dotsent A. N. Kushrev) na baze 1-y Oblastnoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR A. A. Sokolov)

(DYSENTERY) (INTESTINES -- INTUSSUSCEPTION)

ZAVADOVSKAYA, YE.K

USSR/Electricity - Dielectrics, G-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34997

Author: Zavadovskaya, Ye. K.

Institution: None

Title: Electric Breakdown and Mobility of Electrons in Dielectrics and

Semiconductors

Original

Periodical: Izv. Tomskogo politekhn. in-ta., 1956, 82, 9-15

Abstract: Electric breakdown in a dielectric is considered as a mechanical damage

to the crystal. It is assumed that the energy a cumulated by the electrons in the electric field is consumed in destroying the bond between the particles of the lattice, and that thereby the transmission of the energy from the electrons of the lattice occurs particularly vigorously in the case when the electron energy is of the same order of magnitude as the binding energy. Using an experimental linear relationship between the electric strength of the crystals of check heledd salts and the energies of the lattice, the author has

alkali-haloid salts and the energies of the lattice, the author has

Card 1/2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34997

Abstract: obtained a relationship for the mobility of the electrons and the field intensity. In strong fields the mobility varies as u ~ 1/E, but in weaker fields it varies as u ~ 1/NE.

Card 2/2

DVIDOVSKAYA

USSR/Electricity - Dielectrics, G-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34996

Author: Zavadovskaya, Y. K.

Institution: None

> Title: Results of Experimental Investigation of the Mobility of Electrons in Semiconductors and Dielectrics in Strong Electric Fields

Original

Periodical: Izv. Tomskogo politekhn. in-ta., 1956, 82, 16-20

Abstract: A survey of several experimental works on the investigation of mobility of electrons in semiconductors and dielectrics. The results of the investigations show in the majority of cases that the decrease in mobility with increasing field intensity obeys the law u $\sim 1/\sqrt{E}$

Card 1/1

AVADOVSKAYA

112-1-126 Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, Translation from:

p.16 (USSR)

AUTHOR: Zavadovskaya, Ye.K.

Disruptive Discharge and Electron Mobility in Dielectrics TITLE: and Semiconductors (Elektricheskiy proboy i podvizhnost

elektronov v dielektrikakh i poluprovodnikakh)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1956, Nr 82, pp.9-15

It is assumed that the disruptive discharge is completed ABSTRACT:

with the destruction of bonds between the particles of the crystal lattice. All the energy stored by the electron along its free path is transmitted to the lattice particles and is consumed in breaking down the ties between them. The transfer of energy from the electron to the lattice will attain a maximum when the electron energy is approximately equal to the

coupling energy between the lattice particles. At the

same time the electron mobility $w \approx E^{-1/2}$

Disruptive Discharge and Electron Mobility in Dielectrics (Contd.)

short survey of work on the calculation of u in dielectrics and semiconductors in weak and strong electric fields is given. Assuming that u attains its lowest value during the most intensive transfer of energy from the electrons to the lattice, the author determined the electric strength $E_{p\chi} = \mathcal{E}W/ea_{o}$, where \mathcal{E} is the specific inductive capacitance, W and e are the energy and the charge of the electron, \mathbf{c}_{o} is the constant of the lattice. The values of $E_{p\chi}$ are close to those obtained experimentally. Bibliography: 10 titles.

Card 2/2

A. A. V.

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, 1530 Nr 1, p. 232 (USSR)

AUTHORS:

Vorob'yev, A.A., Zavadovskaya, Ye.K.

TITLE:

Physical and Electrical Properties of Ionic Crystals (Fizicheskiye i elektricheskiye svoystva ionnykh

kristallov)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1956, 83, pp.3-21

ABSTRACT:

Bibliographic entry

Card 1/1

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, 112-1-1531

Nr 1, p. 232 (USSR)

AUTHOR:

Zavadovskaya, Ye.K.

TITLE:

Observation on the Connection Between the F-Absorption Band in Alkali-Haloid Crystals and the Lattice Energy Ectory (Zamechaniye o svyazi F-polosy pogloshcheniya v shchelochno-galoidnykh kristallakh i energii reshetki)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1956, 83, pp.30-31

ABSTRACT:

Bibliographic entry

Card 1/1

ACCESSION NR: AR4042157

S/0196/64/000/005/B008/B008

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 5B38

AUTHOR: Vorob'yev, A. A.; Vorob'yev, G. A.; Zavadovskaya, Ye. K.; Savintsev, P. A.

TITLE: Some results of investigation of properties of ionic dielectrics

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vy*p. 51, 1963, 171-178

TOPIC TAGS: ionic dielectric, ionic crystal, lattice parameter, dielectric property

TRANSLATION: On the basis of analysis of experimental results, a connection is established between the physical-chemical properties of ionic crystals and alloys with lattice energy U, lattice parameters, molecular concentration, and number of particles in a unit cell. Hardness Elimit, thermal and chemical stability of crystals increases with increase of U. Properties of solid solutions are determined by Cord | 1/2

ACCESSION NR: AR4042157

by change of defectiveness of lattice and heat of formation Q. Number of particles in a unit cell of hard alloys NaCl - NaBr, KCl - KBr, KCl - RbCl is less, and temperature coefficient of expansion is more, than for pure crystals. The values of Q, tan δ, temperature coefficient of expansion, and Debye temperature of alloys have a maximum, while ρ and E_{limit} - a minimum in the region of average concentrations of components, which is indicated by the smaller bond of ions and large defectiveness of the lattice of alloys. Measurements of Q of hard alloys established that eutectic alloys are not a mechanical mixture of components. The melting point at the contact of two heterogeneous crystals is lower than the melting point of components by tens and hundreds of degrees; there is observed a mutual dissolution of components. The value of Elimit of crystals depends on the polarity of the point, gauge of the sensor, and temperature. With a gauge of several microns, Elimit increases with an increase of gauge. The experimental results are presented which indicat the ionization character of breakdown of crystals with the help of the mechanism of impact ionization. Two illustrations. Bibliography: ll references. [Tomsk Polytechnical Institute im. S. M. Kirov].

SUB CODE: EM, SS

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Card 2/2

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ACCESSION NR: AR4034658

s/0196/64/000/003/B004/B005

SOURCE: Ref. Zh. Elektrotekhn. i energ., Abs. 3B25

AUTHOR: Zavadovskaya, Ye. K.; Melik-Gaykazen, I. Ya; Treskina, M. N.

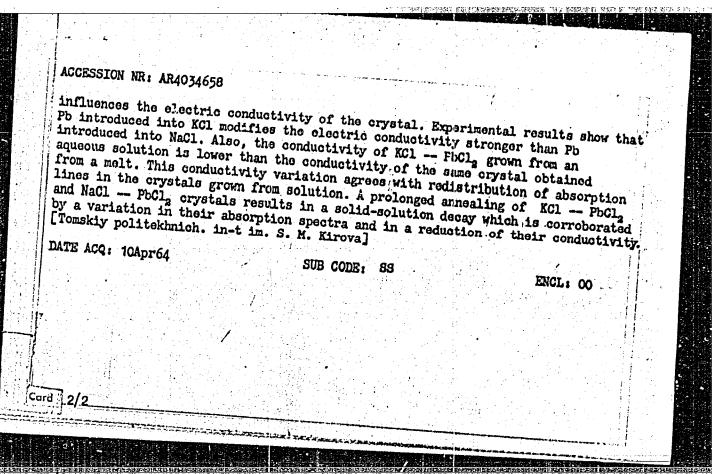
TITLE: Effect of impurity distribution in crystals on the electric conductivity.

CITED SOURCE: Tax. Torismost the conductivity.

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vy*p. 51, 1963, 179

TOPIC TAGS: crystal electric conductivity, impurity distribution in crystals, crystal absorption spectrum

TRANSLATION: I. A. Parfinovich's hypothesis about the impurity ions in the crystallattice points being responsible for the long-wave line of additional light
absorption in the ultraviolet range is corroborated by experiments with crystals
associated with the impurity ions situated at the borders of contact surfaces in
the crystal. The feasibility of observing dual distribution of impurities in a
of the impurities — the segregating one at the boundary or the one forming a
cord 1/2



ACC NR. AP6013468 IJP(o) JD/GQ SOURCE CODE: UR/0139/66/000/002/0155/0157 AUTHOR: Zavadovskaya, Ye. K.; Chernyshev, V. A. ORG: Tomsk Polytechnic Institute im. S. H. Kirov (Tomskiy politekhnicheskiy 60 3

TITLE: Effect of preliminary y-irradiation on the electric properties of single crystals

SOURCE: IVUZ. Fizika, no. 2, 1966, 155-157

TOPIC TAGS: gamma irradiation, irradiation effect, single crystal, dielectric crystal, electric property, electric conductance, temperature dependence

ABSTRACT: Conductance o, tangent of the dielectric loss angle tan 6, and specific inductive capacitance e of CaF2 single crystals both irradiated from a Co60 source and nonirradiated have been investigated. The absorbed irradiation do se was 1.66.10⁸ rad. Conductance σ was measured by means of a d-c amplifier with an electric field intensity of 500 v/cm. Accuracy of σ measurements was 20%. Tan δ and ε were measured by means of an unbalanced bridge in the 100-20,000 cps frequency range. Measurement accuracy was 20% for the tangent of the dielectric loss angle and 0.3% for specific inductive capacitance. Specimen capacitance was within 7 to 12 pf. The specimens were 0.8-1.1 mm thick. Platinum electrodes were deposited by cathode spraying in a vacuum. The same specimens were used for measuring o, tg 6 and c. Card 1/2

n enola-co ACC NRI AP6013468

Measurements were taken in a vacuum (8-5)·10-4 mm Hg at temperatures ranging from 20 to 450C. Curves of the dependence of conductance on temperature show discontinuity in the range 90—130C. For irradiated crystals conductance on temperature show discontinuity point. heverage 103/45#2001e is CLAR DP86-00513R001963920015-5' crystapprovers for the dependence of tan 6 on temperature show regions both of conductance and relaxation losses. & increases slightly and almost linearly with an increase in temperature. It was also noted that preliminary irradiation results in a decrease both of tan 6 and &, and in an increase in conductance. Orig. art. has:

SUB CODE: 09/ SUBM DATE: 25Nov64/ ORIG, REF: 001/ OTH REF: